

# Executive Summary Report

## SMOG CHECK Statewide

November 2009

### 1. Testing Volume

	All Tests	Failed	Percent (%) Failed
Initial Test	685,310	87,832	12.82%
Total	797,685	114,832	14.40%

### 2. Certification Volume

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	586,634	85.60%	98,676	14.40%
Total	667,896	83.73%	129,789	16.27%

### 2a. Certification Volume (Test Only)

	Certificates Issued	Percent (%) Certificates Issued	No Certificates Issued	Percent (%) No Certificates Issued
Initial Test	365,092	85.64%	61,220	14.36%
Total	418,491	84.47%	76,940	15.53%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Failed
Gross Polluters	12,445	1.82%
All Emissions	45,526	6.64%
All Visual	9,360	1.37%
All Functional	53,653	7.83%
OBDII	31,898	4.65%
Overall	87,832	12.82%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Enhanced	548,864	71,602	13.05%	9,953	1.81%
Partially Enhanced	34,090	5,270	15.46%	720	2.11%
Basic	63,179	6,805	10.77%	1,114	1.76%
Change of Ownership	4,549	655	14.40%	160	3.52%
No Program	1	0	0.00%	0	0.00%
Unknown Program	34,627	3,500	10.11%	498	1.44%
Total Program Area	685,310	87,832	12.82%	12,445	1.82%

### 5. Initial Test Failures by Station Type

Station Types	Initial Tests	Failed	Percent (%) Failed	Gross Polluters	Percent (%) Gross Polluters
Test Only	426,312	59,644	13.99%	8,763	2.06%
Regular	191,279	17,358	9.07%	2,043	1.07%
Basic Area Dealer	3,683	167	4.53%	15	0.41%
Gold Shield in Enhanced Area	48,204	8,277	17.17%	1,192	2.47%
Gold Shield in Basic Area	9,337	1,378	14.76%	246	2.63%
Gold Shield in COO Area	4,099	567	13.83%	132	3.22%
Business Fleet	21	0	0.00%	0	0.00%
Permanent Fleet Registered	54	1	1.85%	0	0.00%
Referee	552	301	54.53%	32	5.80%
Government Fleet	1,767	139	7.87%	22	1.25%
Unknown Privilege	2	0	0.00%	0	0.00%
Total	685,310	87,832	12.82%	12,445	1.82%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Certificates Issued
Volunteers	220,806	197,058
Directed Vehicles	205,506	168,034
Total	426,312	365,092

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Certificates Issued
Volunteers	43,951	36,959
Directed Vehicles	17,689	13,349
Total	61,640	50,308

**6. Initial Tests by Vehicle Model Year**

Model Year	Initial Tests	Failed Overall	Percent (%) Failed Overall	Percent (%) Failed Emissions	Percent (%) Failed Gross Polluters	Percent (%) Failed Functional	Percent (%) Failed Visual	Percent (%) Failed OBDII
MY-1970	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1971	1	1	100.00%	0.00%	0.00%	100.00%	100.00%	0.00%
MY-1973	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MY-1974	7	4	57.14%	42.86%	42.86%	28.57%	14.29%	0.00%
MY-1975	6	2	33.33%	16.67%	16.67%	33.33%	0.00%	0.00%
MY-1976	844	249	29.50%	19.67%	7.70%	17.89%	8.77%	0.00%
MY-1977	1,232	343	27.84%	18.18%	7.47%	15.67%	7.55%	0.00%
MY-1978	1,415	422	29.82%	19.58%	8.90%	17.17%	7.77%	0.00%
MY-1979	1,739	537	30.88%	20.30%	8.80%	16.56%	7.53%	0.00%
MY-1980	1,031	281	27.26%	19.79%	10.09%	13.48%	6.79%	0.00%
MY-1981	1,104	313	28.35%	22.46%	8.70%	13.13%	5.53%	0.00%
MY-1982	1,454	426	29.30%	22.49%	10.45%	13.07%	7.84%	0.00%
MY-1983	1,621	486	29.98%	22.83%	10.55%	15.42%	7.16%	0.00%
MY-1984	3,342	1,001	29.95%	22.98%	10.35%	15.02%	6.22%	0.00%
MY-1985	4,349	1,280	29.43%	23.18%	9.66%	14.26%	6.07%	0.00%
MY-1986	6,397	1,772	27.70%	20.90%	8.85%	13.66%	5.17%	0.00%
MY-1987	8,214	2,397	29.18%	22.97%	8.58%	13.37%	4.80%	0.00%
MY-1988	9,139	2,526	27.64%	20.67%	7.57%	13.48%	4.44%	0.00%
MY-1989	13,098	3,235	24.70%	18.19%	6.28%	12.21%	3.61%	0.00%
MY-1990	15,214	3,702	24.33%	18.24%	6.07%	11.48%	3.27%	0.00%
MY-1991	18,674	4,230	22.65%	16.95%	5.40%	10.51%	2.60%	0.00%
MY-1992	17,752	3,906	22.00%	16.27%	5.28%	9.80%	2.60%	0.00%
MY-1993	23,174	5,505	23.76%	18.66%	4.69%	9.39%	2.38%	0.00%
MY-1994	26,422	5,400	20.44%	14.66%	3.29%	8.83%	2.27%	0.00%
MY-1995	37,726	6,691	17.74%	12.44%	2.60%	7.59%	1.92%	0.00%
MY-1996	26,220	5,253	20.03%	9.27%	1.40%	13.54%	1.63%	12.81%
MY-1997	46,575	7,097	15.24%	6.54%	1.01%	10.38%	1.07%	9.84%
MY-1998	35,956	4,925	13.70%	5.31%	0.86%	9.58%	1.01%	9.13%
MY-1999	60,954	6,015	9.87%	2.83%	0.47%	7.53%	0.81%	7.21%
MY-2000	42,769	3,964	9.27%	2.29%	0.42%	7.41%	0.62%	7.14%
MY-2001	89,215	7,149	8.01%	1.26%	0.26%	6.92%	0.54%	6.70%
MY-2002	36,024	2,178	6.05%	1.01%	0.24%	5.04%	0.49%	4.86%
MY-2003	98,368	4,945	5.03%	0.62%	0.17%	4.44%	0.35%	4.26%
MY-2004	25,019	761	3.04%	0.33%	0.06%	2.57%	0.30%	2.43%
MY-2005	11,998	414	3.45%	0.39%	0.07%	3.02%	0.21%	2.89%
MY-2006	6,686	172	2.57%	0.28%	0.04%	2.17%	0.27%	2.08%
MY-2007	4,624	115	2.49%	0.22%	0.04%	2.25%	0.15%	2.18%
MY-2008	4,449	85	1.91%	0.18%	0.00%	1.64%	0.13%	1.60%
MY-2009	2,098	47	2.24%	0.24%	0.10%	1.86%	0.29%	1.72%
MY-2010	398	3	0.75%	0.00%	0.00%	0.75%	0.00%	0.75%
All Model Years	685,310	87,832	12.82%	6.64%	1.82%	7.83%	1.37%	4.65%

7. Referee Activity

	Certificates Issued
Certificate of Compliance	403
Certificate of Non Compliance	1
Parts Cost	244
Hardship Extensions	0
Exempt Vehicle	15
Exempted by Directive	70
Parts Exemption	13
Unknown Outcome	0
Permanently Exempt Vehicle	0
Temporarily Exempt Vehicle	0
	746

8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,098
Stations Locked-Out at Least Once	108
Stations Conducted at Least One Test	7,031

9. Active Technicians

License Type	Endorsement	Technician Count	Daily Average
EA	Both Endorsement	9,709	5,686
EA	Gas Endorsement	10	0
EB	Both Endorsement	46	0
EB	Gas Endorsement	481	0
GU	Both Endorsement	20	0

10. Inspection Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	370,807	48.69	51,380	49.23	422,187	48.75
Test and Repair	120,430	46.92	69,103	47.05	189,533	46.97
Test and Repair Dealer	33	70.36	3,615	51.51	3,648	51.68
Referee	211	30.00	71	30.00	282	30.00
Gold Shield in Enhanced Area	41,018	47.82	7,080	48.50	48,098	47.92
Gold Shield in Basic Area	372	62.85	8,965	38.18	9,337	39.16
Gold Shield in COO Area	464	53.75	3,635	53.72	4,099	53.72

11. Repair Costs

Repair Type	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	5,699	22.07	18,276	212.18
	\$51-150	4,569	100.63		
	\$151-250	2,678	199.73		
	\$251-450	3,144	337.75		
	Over \$450	2,186	775.60		
CAP Repairs	\$0-50	109	23.73	4,056	405.92
	\$51-150	177	102.50		
	\$151-250	410	208.32		
	\$251-450	1,319	356.23		
	Over \$450	2,041	524.45		
Total Repairs	\$0-50	4,717	22.21	19,196	287.78
	\$51-150	3,504	100.74		
	\$151-250	2,614	201.57		
	\$251-450	3,945	343.41		
	Over \$450	4,416	721.19		

12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
CAP Repairs	3,803	405.92

13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Gold Shield in Enhanced Area	4	3	0	1	0	3	1	1
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	20	9	0	1	2	4	5	1

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Basic	Test Only	26	8	1	1	1	7	3	1
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Basic Area	247	58	7	2	12	39	22	5
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	346	68	11	0	25	32	44	8
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	28,874	6,391	922	279	2,383	3,329	4,026	715
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	59	6	1	31	24	37	1
Acceleration Simulation Mode (ASM)	Enhanced	Referee	134	147	23	60	38	84	66	74
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	82,945	8,047	767	384	4,212	3,205	5,560	754
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	299,048	52,202	7,670	2,404	16,541	30,407	29,772	5,287
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Basic Area	49	17	2	1	5	9	11	3
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in COO Area	29	2	0	0	1	1	1	0
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	2,766	789	104	33	303	406	496	71
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	6	8	1	4	1	4	1	6
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	13,488	2,545	344	120	783	1,426	1,440	255
Acceleration Simulation Mode (ASM)	Partial	Test Only	8,255	1,602	224	88	476	926	884	163
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	13	4	1	0	1	2	4	2
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,282	260	40	21	98	135	160	40
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	48	6	1	14	29	21	1
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	14	8	0	4	2	2	5	5

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	9,470	886	96	40	416	417	560	81
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	9,871	1,482	232	112	545	857	868	213
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	6,748	1,167	215	76	363	433	797	215
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	146	19	4	0	7	7	13	1
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	987	231	42	15	103	81	168	30
Two Speed Idle (TSI)	Basic	Government Fleet	0	13	5	0	3	8	5	0
Two Speed Idle (TSI)	Basic	Referee	15	13	3	5	3	4	9	9
Two Speed Idle (TSI)	Basic	Test and Repair	36,897	4,144	617	242	1,530	1,377	3,034	498
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	2,592	131	14	6	52	33	103	16
Two Speed Idle (TSI)	Basic	Test Only	7,246	1,052	213	48	396	408	707	151
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	69	20	2	1	5	6	18	1
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,611	318	85	25	78	154	200	47
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	91	26	10	2	5	18	12	7
Two Speed Idle (TSI)	Change of Ownership	Referee	2	3	1	2	2	1	2	3
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,292	172	32	7	58	68	125	15
Two Speed Idle (TSI)	Change of Ownership	Test Only	731	109	30	10	24	49	64	18
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	330	35	4	4	16	14	21	6
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	430	53	10	2	25	17	44	6
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	4,405	491	59	33	283	117	387	60
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	14	3	0	6	4	10	0
Two Speed Idle (TSI)	Enhanced	Referee	32	22	3	12	9	5	11	14
Two Speed Idle (TSI)	Enhanced	Test and Repair	17,584	1,029	114	54	659	220	827	114
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	321	19	0	1	12	3	15	2
Two Speed Idle (TSI)	Enhanced	Test Only	36,362	2,909	354	126	1,784	724	2,254	258
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	37	3	1	0	2	1	2	0
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	317	41	9	0	18	15	27	3
Two Speed Idle (TSI)	Partial	Government Fleet	0	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Referee	1	3	1	2	2	2	2	3

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Failed	All Emission Failed	All Functional Failed	All Visual Failed
Two Speed Idle (TSI)	Partial	Test and Repair	1,880	153	24	7	81	48	120	18
Two Speed Idle (TSI)	Partial	Test Only	949	94	9	5	53	26	72	11
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	314	78	15	6	31	25	52	17
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	856	101	21	14	34	44	73	19
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	321	44	6	6	22	12	34	7
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	3	1	0	0	2	1	0
Two Speed Idle (TSI)	Unknown Program	Referee	3	3	0	2	2	1	3	2
Two Speed Idle (TSI)	Unknown Program	Test and Repair	3,985	372	49	28	200	102	286	46
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	374	10	1	0	7	2	8	0
Two Speed Idle (TSI)	Unknown Program	Test Only	2,602	186	30	9	127	49	147	19
UnKnown TestType	Basic	Referee	0	15	0	8	0	15	1	8
UnKnown TestType	Change of Ownership	Referee	0	3	0	1	0	3	0	2
UnKnown TestType	Enhanced	Gold Shield in Enhanced Area	0	1	0	0	0	1	0	1
UnKnown TestType	Enhanced	Referee	2	55	0	32	0	55	2	32
UnKnown TestType	Partial	Referee	0	6	0	3	0	6	0	3
UnKnown TestType	Unknown Program	Referee	11	15	0	9	0	15	1	10